

Prik Mati Hulch, 1946 P. 513-520

"Lift Force of an Arrow-shaped
Wing" M. I. Gurevich

NACA TM 1245

IR, May 1950, p. 102

Prib Mat i Mekh Vol 10, pp 521-24 (1946)

Influence of Acceleration of Blended Bodies
of Rotational Symmetry Upon the Resistance
of the Gas.

J. J. Frankl

AMC

Trans. # A9-T-19 See Tr Cont RT 330

1948 - 11 pp.

(Copy in files.)

Prik Mat i Mekhan Vol 10, page 597-616 (1946)

Longitudinal vibrations of bars, by G. S. Shapiro.

AEC Trans (avail Brookhaven)

Srib Mat i Mekh Val 10, pp 623-38 (1946)

The Elasto-Elastic Stability of Plates

A. A. Ilyushin

NACH Trans.
Tech Memo - # 1188

Priklad mat. i teksh., 1947 P199-202

"On the Formation of Shock Waves
in Subsonic Flows with Local
Supersonic Velocities" F.L. Frankl

Translated in NACA tech
memo (1251) April 1950

April through O.T.S. 5/20/50
See Batt. of Tech. Arts. Vol. 14, #1 PB 100721 417
July 14, 1950 - p. 51

Prikl Mat i Mekh 1947

"Two-Dimensional Motion of a Gas
at Large supersonic Velocities"
S.V. Falkovich

NACA TM 1239

IR, May 1950, Pro2

See Dr Contr RT403

Prat Mat i Mekh

Vol II,

1947

Resistance of Grid of Profiles in Flow of Viscous
Incompressible Fluid

S. S. Lytayanskii

In process - AMC
(Telecom - Jun 51)

PL 1054

18 T 41

PRIK MATE I MEKH Vol XI, No 2 Feb 1947

10 pp

"Reciprocal Action of the Boundary Layer on the Distribution of Pressure Over the Surface of a Body in a Flow"

L. G. Loytsyanskiy

pp 205 214

AMC
F-TS-1210-1A
AF-226948

Sci Dr Com RT USA

15T1

PRIKLADNAYA MATEMATIKA I MEKHANIKA
VOL XI, No 3

Mar 1947

6 pp

"Distribution of Pressure over the Surface of a Body
of Revolution in a Gas Flow of High Subsonic Velocity"

I. I. Eterman

Sci Dr Cont RT 419

4941.1-21C
Proj 2207
AMC TRANS.
F-TS-1222-1A
copy in files
AF-226950

21T3

Resistance of Cascade of Airfoils in Viscous Incompressible Fluid, by L. G. Loytsianskiy, 19 pp.

RUSSIAN, m bimo per, Prik Matemat i Mekh, Vol XI, No 4, 1947, pp 449 - 458.

NACA N-12421

Sci - Aero

Also ATIC F-TS-

105

Feb 52 CTS

7488

unpubl rpt, Avail onloan only

CIA 1213440

R-493-N

Elastic Constants in the Nonlinear Theory of
Elasticity,

RUSSIAN, PRIK MATEMATIKA I MECHANIKA, Vol. XI,
1947, pp 493-494

m *JPRSfor ARGMA

Sci - Math
15 Mar 1961

A. L. Ghol'denweizer, and A. I. Lur'e

The mathematical theory of the equilibrium of
elastic shells, 54 pp
RUSSIAN per, Prikladnaya Matematika i Mekhanika
1947, Vol 11, pp 565-592

Sci Museum Lib, No 52/0992

Am Month loc T-2

M. Y. Mill loc Tr - T-9

PRIK MAT I MEKH Vol XI, No 1, 1947 Jan 1947
19 pp

"Oscillation of a Wing in a Subsonic Gas Flow"
~~CIA~~ 559846 M. D. Haskind Phosokino

AMC Trans A9-T-22, 1948, 33 pp
copy ordered from OCD 9/8/49 RT-1184
AF 226965
Brown Univ tran for AMC

8T92

PRIK MATE I MEKH Vol XI, No 1

Jan 1947

"Forces Acting on an Oscillating ~~Plane~~ in a Super-
sonic Gas Flow" *Airfoil* pp 165-170

CIA/559845

I. A. Panichkin

AF-226946

AMC

Trans-A9-T-21

1948 - 11 pp

(copy in files)

Sci & Cnt RT 423

8T94

PRIK MATE I MEKH Vol XI, No 1

Jan 1947

10 pp

"Calculation of Potential Flow of an Incompressible
Fluid Past an Airfoil of Arbitrary Shape"

S. G. Nuzhin

AMC Trans
AT1-23476
(Copy in CIA Lit)

8T99

PRIK MATE I MEKH Vol XI, No 1

Jan 1947

10 pp

"Ellane Parallel Gas Flow Past an Ellipse"

L. K. Kudriashov

AMC Trans
F-TS-1208-1A
copy in files

8T104

Subsonic Gas Flow Past a Wing Profile, by S. A.
Khristianovich, I. M. Yur'ev, 29 pp.

RUSSIAN, per, Frik Mat i Mekh, Vol XI, No 1,
1947, pp 105-118.

A Sci Trans Center RT-251

Scientific - Aeronautics
GCS/DEX

10, 914

S. V. Fal'kovich

On the lift force of a wing of finite span in super-
sonic flow, 10 pp
RUSSIAN per Prikladnaya Matematika i Mekhanika, 1947
Vol. 11, pp 171-176

Sci Museum Lib No 52/0990

Am Math Sec 7-8

AEC TR 160

available 13 months later

1952 ETS-1200

ITAT

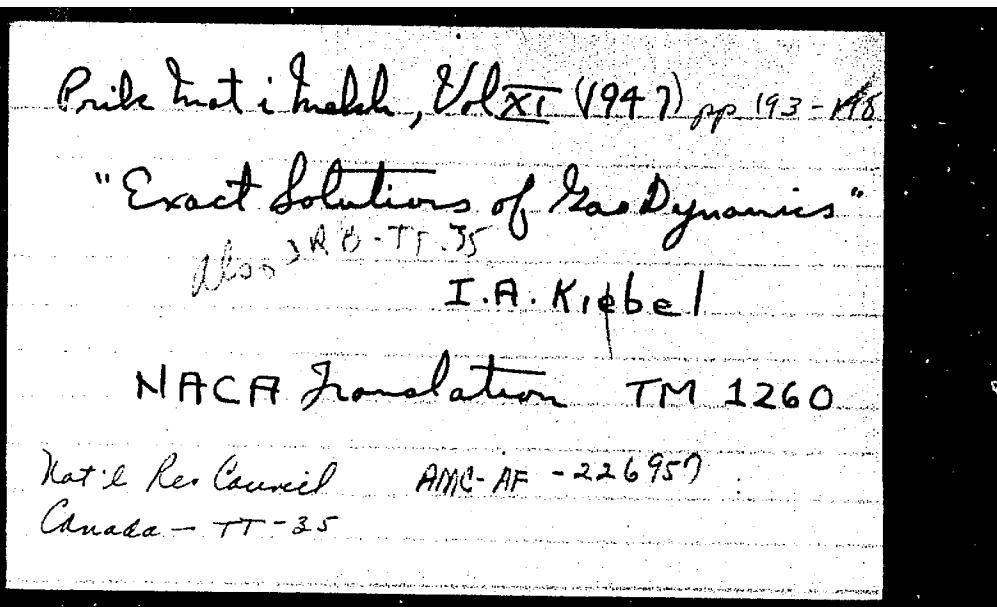
Trib Matemat i Mech Vol 11, pp 177-192 (1987)

Computation of One-Dimensional Gas
Flows

by B.M. Kiselev

Sci Dr Cont RT 428

AMC Trans.
FTS-1208-IA



PRIK MATE I MEKH VOL XI, No 2

Feb 1947

4 pp

"Supersonic Flow About a Triangular Wing"

M. I. Gurevich

Done by AMC
F-TS-1214-1A
(copy in files)
AF-226941

In Dr Cnt RT #20

15T13

Vol II 1102

S. A. Khristianovich

Approximate integration of the equations of a
supersonic gas flow, 14 pp
RUSSIAN per, Prikladnaya Matematika i Mekhanika, 1947
Vol II, pp 215 - 222

Sci Museum Lib No 52/0995

AFC - TR-159

F-75-1220-1A

Scanned by John G. G.

NY World War II

Priklad Matem i Mekhan Vol XI No 2 Mar/Apr 47
221-6

Nonstationary Motion of Ground Waters with a free
Surface by N. K. Kalinin (deceased), P. Ya. Polubari-
nova-Kochina.

Proj: 10007
ST-323

FDD 110328

SR 7-10-51

ASSET Tech Co
RF-197

Yuri Mat' i Luchk Vol 11, # 2, pp 293-6 (1947)

The Theory of Plasticity in the Case of Single Loading Accompanied by Strain-Hardening

A. A. Ilyushin

NACA Trans.
Tech Memos - # 1207

RT-99J

PRIKLADNAYA MATEMATIKA I
MEKHANIKA
VOL XI, No 3

Mar 1947

4 pp

"The Theory of a Finite-Span Wing in a Supersonic Flow"

S. V. Falkovich

Sci Dr Cont RT 418

4941.120A
Proj 2194
Done by AMC
F-TS-1215-1A
AF-226949

PP 391-94

20T3

Equations of Motion of a Rocket, by F. R. Gantmakher,
L. M. Levin, 21 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol XI, No 3, 1947,
pp 301-312.

Sci Trans X Center RT-314

Scientific - Mathematics 10, 889
CTS/DEX

Prikladnaya Matematika i Mekhanika

Volume XI, No 3 (May-Jun 47),
pages 313-328

Asymptotic Solution of Van Der Pol's Equation
A. A. Dorodnitsyn (Moscow)

0-1943

Project 12084 CD ST-256 SR 9 May 52

Revised 12-1976 SP-07A-1587
267/1 Mat. Sci. SV

Prik Mat i Mekhan Vol 11, page 339-50 (1947)

On variational principles in the theory of plasticity,
by A. A. Markov.

AEC Trans (avail Brookhaven)

An Oscillating Wing of Finite Aspect Ratios in
Supersonic Flow, by M. D. Khaskind, S. V.
Fal'kovich, 13 pp.

RUSSIAN, per Prik Mat i Mekh, Vol XI, No 3, 1947,
pp 371-376. 9690586

AMC F-7S-1219A
Sci Trans Center RT-497

RT-997

Scientific - Aeronautics FTD-MT-63-132,
CTS/DEX 11,079

The Impact on a Flexible String,
by Kh. A. Rakhmatulin,
RUSSIAN, per. Prik. Mat i Makh., Vol 11, No 8,
1947, pp 379-382,
NLL Ref: 8732 (NRC TT-1378)

Sci/Physics
Mar 70

404,088

Arch Mat i Mech

Vol 1, No 3
389-6 (1967)

Remarks on the Wing of Finite Aspect Ratio
in Supersonic Flow

L. A. Dulin

Done by AMIE

F - TS - 1215-1A

Copied in files

S. V. Fal'kovich

Planned motion of a gas at hypersonic velocity, 9 pp
RUSSIAN per in Prikladnaya Matematika i Mekhanika,
1947, vol 11, pp 459-564

Sci Museum Lib No 52/0991

Am Math Loc 1-12

N.Y Math Loc 1: 96012

See Dr Cmt RT Has

Riz, P. M. ELASTIC CONSTANTS IN THE NONLINEAR THEORY OF ELASTICITY (Ob Uprugikh Konstantakh v Nelineinoi Teorii Uprugosti). [1961] [4]p. 1 ref. [JPRS] R-493-N. Order from OTS or SLA \$1.10	61-19573 61-19573	I. Riz, P. M. II. JPRS-R-493-N III. Joint Publications Research Service, New York
Trans. of Prikladnaya Matematika i Mekhanika (USSR) 1947, v. 11, no. 4, p. 493-494.		
DESCRIPTORS: *Elasticity, Theory, Deformation, Stresses.		
The possibility is indicated of selecting additional elastic constants in such a way as to describe, with a considerable degree of approximation, the relationship between the deformations and the stresses in an isotropic body. (Author)		
(Mechanics, TT, v. 7, no. 2)		Office of Technical Services

Resistance of a Delta Wing in a Supersonic Flow,
by E. A. Karpovich, and F. I. Frankl, 3 pp.

per
RUSSIAN, Prik Matemat i Mekh, Vol XI, No 4, 1947,
pp 495-496.

See United States: National Advisory Committee
for Aeronautics.

Technical memorandum 1283.

Sci Museum Lib No 51/2151 - London

Sci & Govt RT 5/6 AMCTR A-9-T-12.

18T45

About Two Concepts of Equations of a Spherical
Shell, by V. Z. Vlasov. 9 pp.
RUSSIAN, per, Prikladnaya Matematika i Mekhanika,
Vol 11, No 5, 1947, pp 521-526.
AIR/FTD/MT-23-100-68

sci/mechan engr
mar 69

376,514

The Calculation of Shallow Shells, by S. A.
Aubartsumian, 12 pp.

RUSSIAN, per, Frik Mat i Mekh, 1947, Vol XI,
pp 527-532.

Sci Mus Lib No 53/0588

Scientific - Mathematics Jun 53 GTS

NACA Tr 1425
61-20031
2268

The Deformation of Naturally Twisted Beams,
by A. K. Rukhadze.

RUSSIAN, per, Fizikladnaya Mat i Mekh, Vol 11,
No 5, 1947, pp 533-542.
NLL 9022.03 (3829)

Sci-Phys
Jul. 68

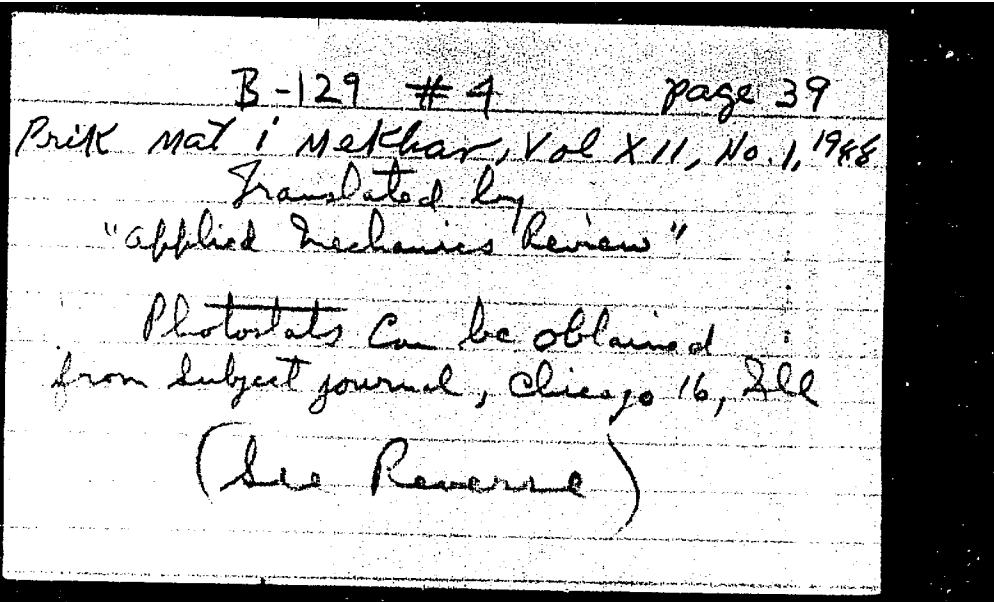
361,606

Exact Solutions of Equations of Gas Dynamics, by I.
A. Kiebel, 12 pp.

RUSSIAN, per, Prikladnaya Mat i Mekh, Vol XI, 1947.

S.L.A. Tr R-549

Mathematics
Sci - Chemistry 48, 756
May 57



Visco-Plastic Flow at the Impact of a Cylinder
on a Plate, by F. A. Bakhshiyan, 14pp
RUSSIAN, per, Prikladnaya Matematika i Mekhanika,
Vo 12, 1948, No 1, pp 47-52
OTS TT-64-19346

Sci - Math
May 67

325,975

Equilibrium of an Elastic Medium Taking the
After-Effect Into Account, by Yu. N. Rabotnov,
12 pp.

RUSSIAN, bimo per, Prik Matemat i Mekh,
Vol XII, No 1, 1948, pp 53-62.

Sci Mus Lib No 55/1178

Sci - Engineering
CTS 71/Aug 1955

25,740

Prik Mat i Mekhan Vol 12, page 63-8 (1948)

The principle of limiting stress, by S. M. Feinberg.

AEC Trans (avail Brookhaven)

The Theory of Thin, Shallow, Elastic Shells, by
I. N. Vekua, 9 pp.

RUSSIAN, per, Prik Mat i Mekh, 1948, Vol XIII,
pp 69-74.

Sci Mus Lib No 53/0591

Scientific - Physics Jun 53 CIS

61-20030

2270

On the Theory of Anisotropic Shallow Shells, by
S. A. Ambartsumyan, 11 pp.

RUSSIAN, bino per, Prik Matemat i Mekh, Vol XII,
1948, pp 75-80.

NACA TM 1424

Sci - Physics
Jan 57 CTS

42,962

52-163651-0591

G. Yu. Dzhanelidze

Survey of the work published in the USSR on the
theory of the bending of thick and thin plates, 28 pp
RUSSIAN per, Prikladnaya Matematika i Mekhanika, 1948,
Vol 12, pp 109-128

Sci Museum Lib No 52/0987

Am. Math Soc T-4

Am. Math Soc Tr 725-6

AECTrans 193

Available Reproduction

46T27

Ex-360

R-369-N

A

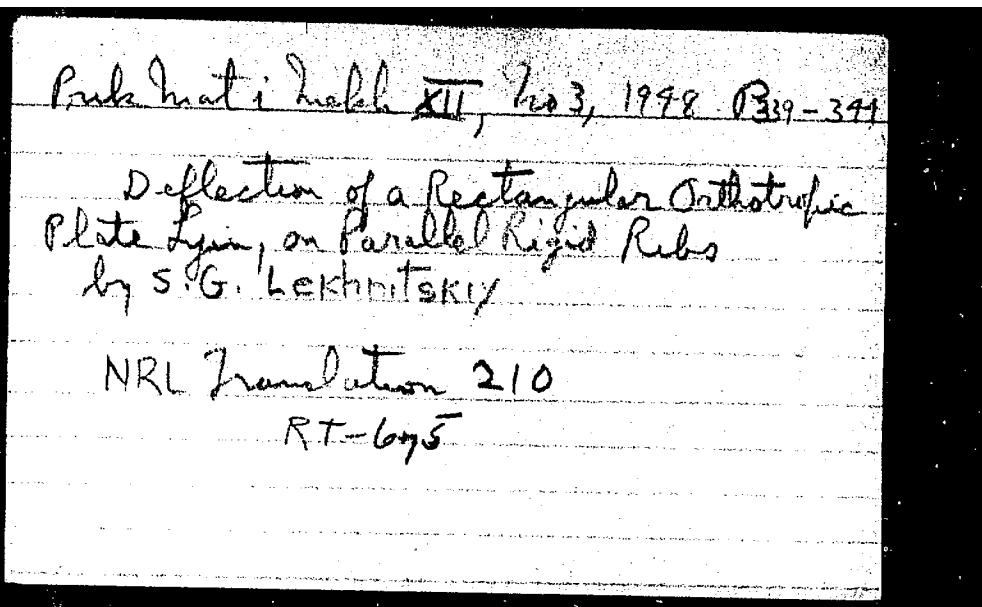
On a Problem of Hurwitz for Transcendent Equations, by
V. M. Capyrin.

RUSSIAN, per, Prik Matemat i Mekh, Vol XII, 1948,
pp 301-328.

*JPRS for Army Rocket and
Guided Missile Agency

Sci - Physics, Math
2/9/60

SLA - 61-15312



V
On the Theory of Hydrodynamical Grids With Thin Airfoils of Arbitrary Shape, by G. A. Bugaenko, 23 pp.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XII, 1948,
pp 453-462.

AMC F-TS-7474

16,724

Scientific - Aeronautics

Jan 1952 CIB

I. G. Malkin

Oscillations of systems with one degree of freedom
close to systems of Lyapunov, 63 pp
RUSSIAN per, Prikladnaya Matematika i Mekhanika, 1948
Vol 12, pp 561-596

Sci Museum Lib No 52/1001

M.G. Malkin, TR 76 22
Am. Math Soc T-32
AEC TR 368
available at Rensselaer

PRIKLAD MATEMAT I MEKH VOL XIII, No 6 Nov/Dec 48

4 pp

"An Analogy Permitting the Solution of Problems of
Flat Elasticoplastic Objects"

L. A. Galin

Brookhaven Nat'l Lab Upton N. Y.
Guide Vol 2, No 9
Sept 49

19/49T48

I. G. Malkin

Oscillations of systems with several degrees of freedom, close to systems of Lyapunov, 30 pp.
RUSSIAN per, Prikladnaya Matematika i Mekhanika, 1948
Vol 12, pp. 673-690

Sci Museum Lib No. 52/1000

Am Math Soc T-713

AEC - 1247

AM Y / Math Soc, AR - 21

The Rotation of a Rigid Cylinder in a Visco-
Plastic Medium, by F. A. Bakhshiyan.
RUSSIAN, per, Prikl Mat i Mekh, Vol 12, No 6,
1948, pp 749-756.
*NASA TT F-12,599

Sci-Phys
Sept 69

An Analogy for the Plane Elastic-Plastic Problem,
by L. A. Galin

RUSSIAN, per, Prik Mat i Mekh, Vol XII, 1948,
pp 757-760.

AEC Tr

Scientific - Mathematics

The Method of Point Transformation and the Problem of
the Forced Vibrations of an Oscillator With "Combined
Friction", by Zhelezov, N. A.

RUSSIAN, per, Prikladnaya Matematika i Mekhanika, 1949,
Vol 13, pp 3-40.

Sci Museum Lib No 52/0365

File AECTR 1105

i lug
Self-Oscillations in an Electrical "Follow-Up"
System, by V. M. Starzhynsky,

RUSSIAN, Priklad Matemat i Mekh, Vol 13, No 1,
1949, p. 41-50.

See Barnborough, Hants: Royal Aircraft Estab.
Lib No 315

F Sci Museum Lib No 51/1366 R - London

Sci-Electricity also see 49/4583

39/49758

Erik Matemat i Mek Vol 13 55-78 1949

Lunts, Ya. L.

On the propagation of spherical waves in an elastic-plastic medium.

Avail at BNL AEC 469 29 June 1951

Equilibrium of an Elastic Axisymmetrically
Loaded Thick-Walled Cylinder, by V. K. Prokopov,
17 pp.
RUSSIAN, per, Prikl. Math. Mekh., Vol 13, 1949,
pp 135-144.
AEC-UCRL-Tr-10256 P911255548-V

Sci/Math
Oct 68

367,677

Resistance of Cascade of Airfoils in Gas Stream at
Subsonic Velocity, by L. G. Loitsyanskiy, 30 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol 13^{No}(2),
1949, pp 171-186. (See United States: National
Advisory Committee for Aeronautics.

Technical memorandum 1303.

~~Scanned~~
Sci Museum Lib No 51/3210 - London

Generalization of Joukowski Formula to an Airfoil of
a Cascade in a Compressible Gas Stream With Subsonic
Velocities, by L. G. Loytzyanskiy, 16 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol 13, No 2, 1949,
pp 209-216. (See United States: National Advisory
Committee for Aeronautics.)

Technical memorandum 1304.

~~RECORDED~~
Sci Museum, Lib No 51/3509 - London

Unstable Capillary Waves on Surface of Separation of
Two Viscous Fluids, by V. A. Borodin, Y. F. Dityakin,
19 pp. UNCLASSIFIED.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIII, No
3, 1949, pp 267-276.

NACA TM 1281 1339
Sci Mus Lib 50/1229
DSIR/4164/CT

16,723

Apr 1951 GTS

Scientific - Physics

Frit Mati Met

Vol. XIII, pp 285-96 (1949)

The Elastic-Plastic Torsion of Prismatic
Bars.

L.A. Balin

Avail @ Bronkhorst

AEC tr - 225

Jul, 1950

Distribution of Stresses in an Elastic Rod With
Curvilinear Anisotropy Under the Action of
Stretching Force and Bending Moments, by
S. G. Lekhnitskiy,

RUSSIAN, per, Prik Mekh, Vol XIII, No 3,
1949, pp 3-7-316.

26, 7/2

In5doc T. 766
Soviet Defense Library
1957

Scientific - Physics Sep 55 CTS/DEX

Propagation of a Wave of Unloading, by K. A.
Rakhmatulin

RUSSIAN, per, Priklad Matemat i Mekh, Vol XIII,
1948, /4/ 331 - 346.

27815

AEC Tr
Sci Tr Center RT-2605

Scientific - Mathematics

Prik Mat i Mekhan Vol 13, page 367-70, (1948)

An elastic-plastic problem with a nonbiharmonic plastic state, by O. S. Parasyuk.

AEC Trans (avail Brookhaven)

Equilibrium of Flexible Axially Symmetric
Loaded Thick Walled Cylinder, by V.K. Prokopov,
RUSSIAN, per, Prikladnaya Matematika i
Mekhanika, Vol XIII, 1949, pp 135-144.

*ACSI J-2589
ID 2204022767

Sci-Phys
May 67

A Theory of Transient Creep, by L. M.
Kestens, U.S.A. (U.S.)

SCANDIN., part, Prakt Mat i Fysik, Vol XIII,
1922, pp 391-392.

REF ID: A695

(loan)

Sci. & Ind.
Ref. 60

107682

Symmetrical Deformation of a Nearly Cylindrical
Shell, by Ye. F. Burmistrov.
RUSSIAN, per, Prikl Mat i Mekh, Vol 13, No 4,
1949, pp 401-412.
NASA TT F-12,217

Sci-Phys
Sept 69

391,573

On the Problem of Gas Flow Over an Infinite Cascade
Using Chaplygin's Approximation, by G. A. Bugaenko,
16 pp.

RUSSIAN, per, Pril. Matemat. i Mekh., No. 4, t.XIII,
1949, pp 449-456. (See United States: National
Advisory Committee for Aeronautics.)

Technical memorandum 1298.

[REDACTED]
Sci. Museum Lib No 51/2189. London

1/7 R.

Approximate Method of Integration of Laminar Boundary
Layer in Incompressible Fluid, by L. G. Loitsyanski.
21 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol 13, (5), 1949,
pp 513-524. (See United States: National Advisory
Committee for Aeronautics.)

Technical memorandum 1293.

No
NACA TM 1293
Sci Dr Grt RT 290

-51/3154
Sci Museum Lib No 51/3154 - London

On a Gas Flow With a Straight Transition Line, by
L. V. Ovseyannikov, 9 pp.

RUSSIAN, per, Pril Matemat i Mekh, Vol 13, 1949,
pp 537-542.

~~SECRET~~ Sci Museum Lib No 51/3648/Hundert

1949.07.57/249

T-3391

P-227.18 T

Bounded Flow With Separation About a Circular
Cylinder, by Y. R. Berman, 10 pp.

RUSSIAN, bimo per. Prik Matemat i Mekh, Vol XIII,
No 5, 1949, pp 543-546.

NACA N-10138

Sci Tr C. RT 905

Scientific - Physics, Flow

14,620

unpubl rpt, avail on loan only

Oct 1951 CTS

On the Theory of Thin Shallow Shells, by
A. A. Nasarov, 7 pp.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIII,
1949, pp 547-550.

NACA TM 1426

42,965

Sci - Physics
Jan 57 CTS

Ser. No. Ser. 57/0427

Torsion of Prismatic Rods With a Cross-Shaped Cross Section, by B. L. Abramyan.

RUSSIAN, per, Prik Matemat i Mekh,
Vol XIVI, No 5, 1949, pp 551-556.

CSIRO

Sci - Engr
May 62

198, 488

*

Theory of thin-walled rods, by A. L. Gol'denveyzer

53 pp. PRYKLADNAIA

Matematika i Mekhanika, 1949, vol 13 No 6

RUSSIAN per Vol 13, No 6 pp 561 - 596

Sci Museum Lib no 52/0128

also NACA TM 1322

Su 2r C. & RT 292

On the theory of thin and thin-walled rods,
by G. Yu. Dzhanelidze, 18 pp
Prikladnaya Matematika i Mekhanika, 1949 vol 13 No 6
RUSSIAN per Vol 13, No 6 pp 597 - 608
Sci Museum Lib no 52/0127

Also NACA TM 1209

Buckling Stages of Elastic Shells, by N. A.
Alumiae.

K
RUSSIAN, per, Prik Matemat i Mechanika, Vol XIV,
No 1, 1950, pp 93-98,

*SLA

Sci - Chem
Oct 62

<p>Alumyaev, N. A. APPLICATION OF THE GENERALIZED VARIATIONAL PRINCIPLE OF CASTIGLIANO TO THE INVESTIGATION OF THE POST-CRITICAL STAGE OF THIN-WALLED ELASTIC SHELLS: MEMORANDUM, [1962] 11p. 12 refs. Order from OTS or SLA \$1.60</p> <p>Trans. of Prikladnaya Matematika i Mekhanika (USSR) 1950, v. 14, no. 1, p. 93-98.</p> <p>DESCRIPTORS: *Elastic shells, *Deformation, *Stresses, Mechanical properties, Mathematical analysis, Calculus of variations.</p> <p>Examples are given of the use of the generalized variational principle of Castigliano in solving the following problems: (1) determination of the critical load; (2) cylindrical buckling of a compressed flat plate, with (Mechanics, TM, v. 10, no. 6)</p>	<p>63-10252</p> <p>1. Title: Castigliano's principle I. Alumyaev, N. A.</p> <p>63-10252</p> <p>(over)</p> <p>Office of Technical Services</p>
--	---

Heat transfer in a boundary layer on a body of revolution, by M.E. Shvets, 3 pp
Prikladnaya Matematika i Mekhanika, 1950 Vol 14
pp 102 - 104
RUSSIAN per - Vol 14, no. 1 - 1950
Sci Museum Lib no 52/0131

Calculation of Hydrodynamic Grids, by G. S.
Samoilovich; Slow Processes in Non-Linear Oscillating
Systems With Many Degrees of Freedom, by Yu. A.
Mitropol'skiy; Stability by a First Approximation, by
A. D. Maizel, 132 pp. UNCLASSIFIED

Full translation.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIV, No
2, Mar/Apr 1950.

AMC F-TS-7338

Scientific - Math

The Propagation of Elastic, Viscous and Plastic Shearing Waves in a Plate, by A. M. Kochetkov; A Problem in Conformal Transformations, by M. Z. Narodstkiy, D. I. Sherman; A compact Solution of the Parabolic, Inhomogeneous, Limit Problem, by N. N. Krugin, 29 pp. UNCLASSIFIED

Full translation.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIV,
No 2, Mar/Apr 1950.

AMC F-18-7338

Sci - Mathematics

Naturally Unstable Systems Under Control, by A. M.
Letov; Approximate Integration of Some
Oscillating Functions, by N. I. Brugin, S. L. Sobolev;
A Variation Expression for the Analysis of Thin
Elastic Shells in the Post-Critical Stage, by
N. A. Alumyaev; 61 pp. UNCLASSIFIED

Full translation.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIV,
No 2, Mar/Apr 1950.

AMC F-TS-7338

Sci - Math

A Variable Formula for Investigating a Thin-Walled
Elastic Shell in the Post-Critical Stage, by N.
Almansi. UNCLASSIFIED

Full translation.

RUSSIAN, per, Prik Naukem i Mekh, Vol XIV, No 2,
1950, pp 197-202.

Navy Tr 721/BuShips 508

Scientific - Engineering, elastic envelopes

The Works of I. A. Oding in the Fields of Creep
and Relaxation, by Yu. N. Rabotnov, 16 pp.

RUSSIAN, per. Prik Mat i Mekh, Vol XIV, No 2,
1950, pp 218-224.

Sci Trans Center RT-444

10,909

Scientific - Physics
CTS/DEX

Torsion and Bending of Prismatic Rods of Hollow
Rectangular Section, by B. L. Abramyan, 24 pp.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIV,
No 3, 1950, pp 265-276.

NACA TM 1319

Scientific - Engineering Dec 1951 CTS

12,880

Propagation of Perturbations in a Viscous-Elastic and a Viscous-Plastic Rod, by

I. N. Zverev.

RUSSIAN, per, Prikladnaya Matematika i Mekhanika, Vol III, 1950, pp 295-302.

NASA TT F-11,722

Sci
Dec 68

371,182

Danilovskaya, V. L
TEMPERATURE STRESSES IN AN ELASTIC HALF-
SPACE ARISING AS A CONSEQUENCE OF THE
SUDDEN HEATING OF ITS BOUNDARY. [1962] [9]p.
(foreign text included) 1 ref.
Order from OTS or SLA \$1.10

62-18562

Trans. of Priklad[naya] Matematika i Mekhanika
(USSR) 1950, v. 14 [no. 3] p. 316-318.

DESCRIPTORS: *Elasticity, Mathematical analysis,
Temperature.

(Physics--Thermodynamics, TT, v. 9, no. 6)

62-18562

I. Title: Therm elasticity
I. Danilovskaya, V. L

Office of Technical Services

Mathematical Theory of the Elasticity of Anisotropic Media, by M. M. Fridman, 26 pp

Full translation.

RUSSIAN, Prik Mat i Mek, 1950, Vol 14, No 3,
pp 321-335.

Sci Mus Lib No 52/1398

Scientific - Mathematics

List No 23, August 1952

Solution of the General Problem of the Deflection of
a Simply Supported Elastic Plate by Z. I. Khalilov.

APP

Full translation.

RUSSIAN, bim. per., Prav. Matemat. i Nauk. Vol. XIV,
1950, pp. 405-414.

AEC TR 1629

Alm Mary 866/Alm Month Sec 87
Scientific - Mathematics

Aug 53 CIS

4822

Select Trans Center RT-112

On the Convergence of the Method of Slices, by L. S. Gandin, 6 pp.

RUSSIAN, bimo per, Prik Matemat i Mekh, Vol XIV, 1950,
pp 441 -443.

MEER N-2331
NACA

Sci - Aero

RT-907

Feb 52 CTS

(S)
Available on loan only, ~~exp~~ unpubl rpt.

On the Non-Linear Theory of Stability for Elastic
Equilibrium of a Thin Spherical Shell Loaded by
Uniformly Distributed Lateral, External Pressure,
by Kh. M. Mushtari, R. G. Surkin.

RUSSIAN, per, Prik Mat i Mekh, Vol XIV, No 6,
1950, pp 573-586.

Sci - Phys

28 Feb 1963

UKAEEA
Risley Tr 369
(available on loan
only)

The Plastic-Elastic Problem of a Heavy Mass
Having a Vertical Cylindrical Opening, by
K. N. Shevchenko, 10 pp
RUSSIAN, per, Prikl. Mat. Mekh., Vol 14, 1950,
pp 587-592. P911355167
ABC NP-Tr-1571

Sci-Mechanical
Nov 67

344,254

Prikladnaya Matematika i Mekhanika
Volume XIV, No 6 (Nov/Dec 1950), pp 619-634.

Project # 9324 CD No. ST-283

"Regulation Circuits with Links Each Possessing
Several Degrees of Freedom", by B. V. Bulgakov

SR date: 11/7/51

23-page
translation
by S.N.
Apr'51.

Solution of the Problem of a Center and Focus in one Case, by N. A. Sakharnikov, 13 pp.

RUSSIAN, bimo per. Prik Matem i Nauki Vol XIV, No 6,
1950, pp 647-658
651

Sci Tr Center RT-761

RT-761

Scientific - Mathematics

10,690

On A Function for the Solution of the Stability Problem of Thin Shells, by L. M. Bunich. UNCLASSIFIED

Full translation.

RUSSIAN, per, Prik Matemat i Mekh, Vol XIV, 1950,
pp 670-671.

Navy Tr 720/BuShips 507

Scientific - Engineering, thin shells

Feb 53 CTS/Dex

Microstructure of Turbulent Flow, by A. M. Obukhov,

A. M. Yaglov, 35 pp.

RUSSIAN, per, Prikladnaya Matematika i Mekhanika,

Vol 15, 1951, pp 3-26. P91129856?

AEC RPP Tr-23

CIA/FDD /X-1728

Sci Mus Lit No 53/1686

L CRT-240

331,088

Sci - Math
Aug 67

Some General Problems in the Theory of Stability of Motion, by N. P. Yerugin, 12 pp.
RUSSIAN, per, Priklad Matematika i Mekhanika, Vol XV, No 2,
1951, pp 227-236. 9697593
DDC RSIC-435

Sci - Math & Mekh
Aug 65 287,272